BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 2000000.00

Name of Work: Estimate for the work of Maintenance of borewells, Drilling of borewells and water supply pipeline at ward no:04 of Yelahanka Satellite Town Sub Division

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **PWD SR 2018-19 P. XLI Item No. 35 including of all taxes**	No								
	12.5 HP 25 Stage		4				4	56414.00	**225656.00**
2	Providing GI Pipe 50 mm 'B' Class **Page No. XLVII, Sl No. 1 PWD SR 2018-19**	m							
			4	130.00			**520.00**	415.00	**215800.00**
3	Providing Collar 50 mm **Page No. XLVII, Sl No. 1 PWD SR 2018-19**	No							
			64				**64.00**	180.00	**11520.00**

	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15**	Mtr	1x4	270.00			**1080.00**	126.70	**136836.00**
5	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) **Page No. 558, Items No-3 BWSSB SR for 2014-15)**	Per Length	4	45.00			**180**	88.00	**15840.00**
	(270/6)=45.00								
6	Lifting of Submersible pump set **(P.40/I.13) PRED SR (2013-14) P-56 I.No 3.21**	No.	48				48	850.00	40800.00
7	Transportation of pumping machineries PRED SR For 2012-13 **(P.41/I.14)PRED SR (2013-14) P.No 56 Item No 10-3-19**	No.	48				48	900.00	43200.00
8	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **PRED SR (2013-14) P No. 54/ I. No. A) (Above 5 HP upto 10HP add Rs.120/- for every ½ HP)**	No.	50				50	3700.00	185000.00
	B) 10 HP Motor								
	upto 5 HP 2500.00								
	for 10 HP (120 x 10) 1200.00								
	Total 3700								
	111.00								
	3811.00								
	Maintenance of exisiting borewells								
	Replacement of Motor Parts:								

	Stator (with one year Guarantee) **P No. 55/ I No. C(1) PRED SR (2012-13) 10.3.3**	No.	50				50	5050.00	252500.00
10	Rotor (with one year Guarantee) **P No. 55/ I No. C(2) PRED SR (2013-14) 10.3.6**	No.	50				50	4700.00	235000.00
11	Upper Flange **P. No. 40 / I No. 10.3.7 PRED SR (2013-14)**	No.	50				50	350.00	17500.00
12	Lower Housing **P. No. 55 / I No.10.3.10PRED SR (2013-14)**	No.	50				50	650.00	32500.00
13	Lower flange **P. No. 40 / I No.5 PRED SR (2008-09)**	No.	50				50	350.00	17500.00
14	a) Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	50				50	475.00	23750.00
15	b) Thrust bearing block assembly complete with Segment bearing pad.**P. No. 40 / I No10.3.13PRED SR (2012-13**	No.	50				50	1150.00	57500.00
16	c)Top Carbon /Ferrodo padding **P. No. 56 / I No. PRED SR (2012-13)**	No.	50				50	150.00	7500.00
17	Bearing (GunMetal) Centrifugal cast Aluminium Bronze, bearing bush. **P. No. 56/ I No10.3.16 PRED SR (2013-14)**	No.	50				50	400.00	20000.00
18	Motor Base with pin **P. No. 56 / I No.10.3.18 PRED SR (2013-14)**	No.	50				50	470.00	23500.00
19	Re-erection charges of pumping machineries including overhauling and painting **P. No. 56 / I No.50 PRED SR (2013-14)**	No.	50				50	950.00	47500.00
20	Labour charges (overhauling only) **P. No. 55/ I No.10.3.22 PRED SR (2012-13)**	No.	50				50	550.00	27500.00
21	**C) Replacement of pump parts:** The following main components of submersible pump sets requiring replacement.								
22	Pump Bowls **P. No. 54 / I No.10.2.1 PRED SR (2013-14**	No.	50				50	700.00	35000.00
23	Intermediate piece (I.P) with IP leaded bronze bush **P. No. 54 / I No10.2.2 PRED SR (2012-13)**	No.	50				50	450.00	22500.00
24	Oil Seal **P. No. 39 / I No.B3 PRED SR (2008-09)**	No.	50				50	125.00	6250.00
25	Oil Seal Steel Bush **P. No. 54/ I No.10.24 PRED SR (2012-13)**	No.	50				50	150.00	7500.00
26	Guide vane **P. No. 54 / I No.10.2.5 PRED SR (2012-13)**	No.	50				50	175.00	8750.00
27	Impeller (Shell moulded with aluminium and Bronze) **P. No. 54/ I No.10.2.70 PRED SR (2012-13)**	No.	50				50	425.00	21250.00

28	a) Discharge outlet (D.O) Bearing D.O Steel Bush **P. No.54 / I No.10.2.70 RDED SR (2012-13)**	No.	50				50	445.00	22250.00
29	b) D.O Bearing **P. No. 54 / I No.10.2.8 PRED SR (2012-13)**	No.	50				50	285.00	14250.00
30	Steel Bush (D.O.Steel bush) **P. No. 54 / I No.A710.2.9 PRED SR (2012-13)**	No.	50				50	150.00	7500.00
31	Allen Screw **P. No. 55 / I No.8 PRED SR (2012-13)**	No.	49				49	25.00	1225.00
32	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 55/ I No.10.2.11 PRED SR (2013-14))**	No.	50				50	950.00	47500.00
33	Pump key (Stainless steel) **P. No. 55 / I No.10.2.12 PRED SR (2012-13))**	No.	50				50	125.00	6250.00
34	Pump Coupling (Stainless steel) **P. No. 55/ I No.10.2.13PRED SR (2012-13)**	No.	50				50	250.00	12500.00
35	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No.10.2.14PRED SR (2012-13)**	No.	50				50	1350.00	67500.00
36	Cable Guard **P. No.55 / I No.10.2.15 PRED SR (2012-13)**	No.	49				49	150.00	7350.00
37	Strainer **P. No. 55 / I No.10.2.16 PRED SR (2012-13)**	No.	50				50	150.00	7500.00
38	Brass Filter **P. No. 55 / I No.10.2.17) PRED SR (2012-13)**	No.	50				50	250.00	12500.00
								TOTAL	1944477.00
								GST 12% (PWD 2018-19 items)	54357.12
	Miscellaneous and Unforeseen Charges		9	9				L/S	1165.88
								Total	**2000000.00**

Administrative Approval
Accorded For 20.00 lakhs.
Head of A/C 3
CER NO 40 **Dt:** 11/10/2021

TA CE (WK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 lakhs
Rupees Twenty lakh rupees only
Under
Registered as CE ( ) No. 10 9 9
Subject to conditions contained in enclosed memo EE ( ) No. 10 /9/
Dated 19/10/2021 Estimate A/ Sanctioned No.
Executive Engineer

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per C.S.R. of PWD 2018-19 PWD Elecrical 2017-18, PRED 2017 -18& RDED SR 2014-15 & SE RDED approved Rate.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Yelahanka Satellite Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Yelahanka Division